

IN THE CLAIMS

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Claim 1 (original): An apparatus for limiting torque of a motor on a vehicle, comprising:

a torque limit determining device operable to receive a weight signal indicative of an approximate weight of the vehicle, the torque limit determining device operable to transmit a torque limit signal indicative of a torque limit for the motor as a function of the weight signal.

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Claim 2 (original): The apparatus of claim 1 wherein the torque limit signal is operable to limit the torque output of the motor.

Claim 3 (original): The apparatus of claim 1 wherein the motor comprises an internal combustion engine.

Claim 4 (original): The apparatus of claim 3, further comprising an engine control module coupled with the torque limit determining device to receive the torque limit signal, the engine control module further operable to receive a throttle signal indicative of a desired engine speed of the engine, the engine control module operable to transmit a fuel signal to the internal combustion engine as a function of the torque limit signal and the throttle signal, the fuel signal operable to control an amount of fuel delivered to a combustion chamber of the internal combustion engine.

Claim 5 (original): The apparatus of claim 1 wherein the vehicle includes a transmission coupled with the engine, further comprising:

a gear ratio determining device coupled with the transmission, the gear ratio sensor operable to transmit a torque multiplier signal indicative of a gear ratio of the transmission; and

wherein the torque limit determining device is operable to be coupled with the gear ratio determining device to receive the torque multiplier signal, the torque limit

determining device further operable to determine the torque limit signal as a function of the torque multiplier signal.

Claim 6 (original): An apparatus for limiting torque of a motor on a vehicle, comprising:

6 a torque limit determining means for receiving a weight signal indicative of an approximate weight of the vehicle, the torque limit determining means operable to transmit a torque limit signal indicative of a torque limit for the motor as a function of the weight signal.

Claim 7 (original): The apparatus of claim 6 wherein the vehicle includes a transmission coupled with the engine, further comprising:

a gear ratio determining means coupled with the transmission, the gear ratio determining means operable to transmit a torque multiplier signal indicative of a gear ratio of the transmission; and

wherein the torque limit determining means is operable to be coupled with the gear ratio determining means to receive the torque multiplier signal, the torque limit determining means further operable to determine the torque limit signal as a function of the torque multiplier signal.

Claim 8. (original): A method for determining a torque limit for a motor of a vehicle, comprising:

determining a first value indicative of a weight of the vehicle; and

determining a second value indicative of a torque limit of the motor as a function of the first value.

Claim 9 (original): The method of claim 8 wherein the motor comprises an internal combustion engine.

Claim 10 (original): The method of claim 8, further comprising:

limiting the torque output of the motor as a function of the second value.

a Claim 11 (original): The method of claim 8 wherein the vehicle includes a transmission coupled with the motor, further comprising:  
determining a third value indicative of a gear ratio of the transmission; and  
wherein determining the second value comprises determining the second value as a function of the first value and the third value.

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Claim 12-13 (cancelled)